

# Comprehensive Analysis Report

## Sample Overview

**Client:** HempLucid

852 E 1910 S Unit 3, Provo, UT 84606

**Sample Name:** Sleep Functional Mushroom Gummies

**Sample Matrix:** Gelatinous Cube

**Sample Lot:** 2180036

**Date Received:** 11/12/2025

**APRC #:** HPL251113D

| Assay  | Disposition | Date Tested |
|--|-------------|-------------|
| Hemp or R&D Cannabinoid Testing (Potency)            | Tested      | 11/14/2025  |
| Heavy Metals - Utah State Cannabis Panel             | Tested      | 11/18/2025  |
| Microbial: Quantitative and Pathogen Detection Combo | Tested      | 11/17/2025  |
| Pesticide Screen (APRC Panel)                        | Tested      | 11/14/2025  |
| Hemp or R&D Residual Solvents                        | Tested      | 11/14/2025  |
| Mycotoxin Quantitation                               | Tested      | 11/14/2025  |



Accreditation #115229

Aromatic Plant Research Center is an ISO 17025:2017 certified laboratory.

# Instrument Analysis Report

## Potency

Method: SOP 1-2026.03

Sample Name: Sleep Functional Mushroom Gummies

APRC Lot Number: HPL251113D

| Cannabinoid   | RT   | Total % | Total mg/g |
|---|------|---------|------------|
| Cannabidivarinic Acid (CBDVA)                       | ND   | ND      | ND         |
| Cannabidivarin (CBDV)                               | 2.33 | 0.01    | 0.09       |
| Cannabidiolic Acid (CBDA)                           | ND   | ND      | ND         |
| Cannabigerolic Acid (CBGA)                          | ND   | ND      | ND         |
| Cannabinol (CBN)                                    | 5.17 | 0.55    | 5.46       |
| Cannabidiol (CBD)                                   | 3.47 | 1.08    | 10.79      |
| Cannabigerol (CBG)                                  | 3.29 | 0.02    | 0.22       |
| Tetrahydrocannabivarin (THCV)                       | ND   | ND      | ND         |
| Tetrahydrocannabivarin Acid (THCVA)                 | ND   | ND      | ND         |
| Delta-9-Tetrahydrocannabinol (Δ9-THC)               | 6.53 | 0.05    | 0.49       |
| Delta-8-Tetrahydrocannabinol (Δ8-THC)               | ND   | ND      | ND         |
| Tetrahydrocannabinolic acid (THCA-A)                | ND   | ND      | ND         |
| Cannabichromene (CBC)                               | 8.21 | 0.01    | 0.06       |
| Cannabichromene Acid (CBCA)                         | ND   | ND      | ND         |
| Δ10 and Δ6a,10a-Tetrahydrocannabinol, mixed isomers | ND   | ND      | ND         |
| (6aR,9R)-Δ10-Tetrahydrocannabidiol                  | NT   | NT      | NT         |
| (6aR,9S)-Δ10-Tetrahydrocannabidiol                  | NT   | NT      | NT         |
| 9(R+S)-Δ6a,10a-Tetrahydrocannabidiol                | NT   | NT      | NT         |
| Cannabicitran (CBTC)                                | ND   | ND      | ND         |

Performed by: Sunita Timsina

Reviewed by: Tessa Crook

|                        | %    | mg/g  |
|------------------------|------|-------|
| Total Cannabinoids     | 1.71 | 17.12 |
| Total THC <sup>†</sup> | 0.05 | 0.49  |
| Total CBD <sup>‡</sup> | 1.08 | 10.79 |

<sup>†</sup>Total Thc is calculated by Δ9-THC +(THCA-A\*0.877)

<sup>‡</sup>Total CBD is calculated by CBD + (CBDA\*0.877)

LOD > 0.005% by mass, LOQ > 0.01% by mass

Notes: Number of Gummies Sampled: 6  
 | Average Mass of Gummies Sampled:  
 3.04 g

## Heavy Metals

Method: CTLA

Sample Name: Sleep Functional Mushroom Gummies

APRC Lot Number: HPL251113D

| Analyte | Result (ppm) | LOD (ppm) | Threshold (ppm) | Pass/Fail |
|---------|--------------|-----------|-----------------|-----------|
| Arsenic | <0.001       | 0.001     | 2.00            | Pass      |
| Cadmium | <0.001       | 0.001     | 0.82            | Pass      |
| Lead    | 0.009        | 0.001     | 1.20            | Pass      |
| Mercury | <0.001       | 0.001     | 0.40            | Pass      |

Heavy metal analysis is completed in partnership with Contract Testing Laboratories of America, Orem UT.

Performed by: CTLA

Reviewed by: Nicholas Saichek

## Instrument Analysis Report

### Microbial Impurities

Method: SOP 1-2034.01 and 1-2035.01 Sample Name: Sleep Functional Mushroom Gummies APRC Lot Number: HPL251113D

| Total Counts           |                 |                |              |
|------------------------|-----------------|----------------|--------------|
| Microbial Group:       | Result (CFU/g): | Specification: | Disposition: |
| Total Aerobic Bacteria | <10             | ≤10,000        | Pass         |
| Total Yeast and Mold   | <10             | ≤1,000         | Pass         |

| Specific Organism Identification |              |                |              |
|----------------------------------|--------------|----------------|--------------|
| Microbial Organism:              | Result:      | Specification: | Disposition: |
| Aspergillus flavus               | NT           | NT             | Not Tested   |
| Aspergillus fumigatus            | NT           | NT             | Not Tested   |
| Aspergillus niger                | NT           | NT             | Not Tested   |
| Aspergillus terreus              | NT           | NT             | Not Tested   |
| E. coli                          | NT           | NT             | Not Tested   |
| STEC                             | Not Detected | Not Detected   | Pass         |
| Salmonella - Specific Gene       | Not Detected | Not Detected   | Pass         |
| Staphylococcus aureus            | NT           | NT             | Not Tested   |
| Pseudomonas aeruginosa           | NT           | NT             | Not Tested   |

Performed by: Kyla Thomas

Notes: Foreign Matter: Not Detected.

Reviewed by: Nicholas Saichek

# Instrument Analysis Report

## Pesticides

Method:

Sample Name: Sleep Functional Mushroom Gummies

APRC Lot Number: HPL251113D

| Pesticide:          | Finding | Action Limit (µg/g) | Pass/Fail |
|---------------------|---------|---------------------|-----------|
| Abamectin           | ND      | 0.5                 | Pass      |
| Acephate            | ND      | 0.4                 | Pass      |
| Acequinocyl         | ND      | 2.0                 | Pass      |
| Acetamiprid         | ND      | 0.2                 | Pass      |
| Aldicarb            | ND      | 0.4                 | Pass      |
| Azoxystrobin        | ND      | 0.2                 | Pass      |
| Bifenazate          | ND      | 0.2                 | Pass      |
| Bifenthrin          | ND      | 0.2                 | Pass      |
| Boscalid            | ND      | 0.4                 | Pass      |
| Carbaryl            | ND      | 0.2                 | Pass      |
| Carbofuran          | ND      | 0.2                 | Pass      |
| Chlorantraniliprole | ND      | 0.2                 | Pass      |
| Chlorfenapyr        | ND      | 1.0                 | Pass      |
| Chlorpyrifos        | ND      | 0.2                 | Pass      |
| Clofentezine        | ND      | 0.2                 | Pass      |
| Cyfluthrin          | ND      | 1.0                 | Pass      |
| Cypermethrin        | ND      | 1.0                 | Pass      |
| Daminozide          | ND      | 1.0                 | Pass      |
| Dichlorvos          | ND      | 0.1                 | Pass      |
| Diazinon            | ND      | 0.2                 | Pass      |
| Dimethoate          | ND      | 0.2                 | Pass      |
| Ethoprophos         | ND      | 0.2                 | Pass      |
| Etofenprox          | ND      | 0.4                 | Pass      |
| Etoxazole           | ND      | 0.2                 | Pass      |
| Fenoxycarb          | ND      | 0.2                 | Pass      |
| Fenpyroximate       | ND      | 0.4                 | Pass      |
| Fipronil            | ND      | 0.4                 | Pass      |
| Fonicamid           | ND      | 1.0                 | Pass      |
| Fludioxonil         | ND      | 0.4                 | Pass      |

| Pesticide:         | Finding | Action Limit (µg/g) | Pass/Fail |
|--------------------|---------|---------------------|-----------|
| Hexythiazox        | ND      | 1.0                 | Pass      |
| Imazalil           | ND      | 0.2                 | Pass      |
| Imidacloprid       | ND      | 0.4                 | Pass      |
| Kresoxim-methyl    | ND      | 0.4                 | Pass      |
| Malathion          | ND      | 0.2                 | Pass      |
| Metalaxyl          | ND      | 0.2                 | Pass      |
| Methiocarb         | ND      | 0.2                 | Pass      |
| Methomyl           | ND      | 0.4                 | Pass      |
| Methyl parathion   | ND      | 0.2                 | Pass      |
| MGK-264            | ND      | 0.2                 | Pass      |
| Myclobutanil       | ND      | 0.2                 | Pass      |
| Naled              | ND      | 0.5                 | Pass      |
| Oxamyl             | ND      | 1.0                 | Pass      |
| Paclobutrazol      | ND      | 0.4                 | Pass      |
| Permethrins        | ND      | 0.2                 | Pass      |
| Phosmet            | ND      | 0.2                 | Pass      |
| Piperonyl butoxide | ND      | 2.0                 | Pass      |
| Prallethrin        | ND      | 0.2                 | Pass      |
| Propiconazole      | ND      | 0.4                 | Pass      |
| Propoxur           | ND      | 0.2                 | Pass      |
| Pyrethrin          | ND      | 1.0                 | Pass      |
| Pyridaben          | ND      | 0.2                 | Pass      |
| Spinosad           | ND      | 0.2                 | Pass      |
| Spiromesifen       | ND      | 0.2                 | Pass      |
| Spirotetramat      | ND      | 0.2                 | Pass      |
| Spiroxamine        | ND      | 0.4                 | Pass      |
| Tebuconazole       | ND      | 0.4                 | Pass      |
| Thiacloprid        | ND      | 0.2                 | Pass      |
| Thiamethoxam       | ND      | 0.2                 | Pass      |
| Trifloxystrobin    | ND      | 0.2                 | Pass      |

Performed by: Anil Rokaya

Reviewed by: Tessa Crook

Pesticide testing performed in a non-ISO 17025:2017 accredited facility. Pass/Fail determinations based on Utah Administrative Rule R68-29.

# Instrument Analysis Report

## Residual Solvents

Method: SOP 1-2027.03

Sample Name: Sleep Functional Mushroom Gummies

APRC Lot Number: HPL251113D

| Residual Solvent      | Finding (µg/g) | Action Level (µg/g) | Pass/Fail |
|-----------------------|----------------|---------------------|-----------|
| Dimethyl sulfoxide    | ND             | 5000                | Pass      |
| N,N-dimethylacetamide | ND             | 1090                | Pass      |
| 1,2 Dimethoxyethane   | ND             | 100                 | Pass      |
| 1,4 Dioxane           | ND             | 380                 | Pass      |
| 1-Butanol             | ND             | 5000                | Pass      |
| 1-Pentanol            | ND             | 5000                | Pass      |
| 1-Propanol            | ND             | 5000                | Pass      |
| 2-Butanone            | ND             | 5000                | Pass      |
| 2-Butanol             | ND             | 5000                | Pass      |
| 2-Ethoxyethanol       | ND             | 160                 | Pass      |
| 2-Methylbutane        | ND             | 5000                | Pass      |
| 2-Propanol            | ND             | 5000                | Pass      |
| Acetone               | ND             | 5000                | Pass      |
| Acetonitrile          | ND             | 410                 | Pass      |
| Benzene               | ND             | 2                   | Pass      |
| Butane                | ND             | 5000                | Pass      |
| Cumene                | ND             | 70                  | Pass      |
| Cyclohexane           | ND             | 3880                | Pass      |
| Dichloromethane       | ND             | 600                 | Pass      |
| 2,2-Dimethylbutane    | ND             | 290                 | Pass      |
| 2,3-Dimethylbutane    | ND             | 290                 | Pass      |
| m,p-Xylene            | ND             | See Total Xylenes   | Pass      |
| o-Xylene              | ND             | See Total Xylenes   | Pass      |
| Ethanol               | 332.536        | 5000                | Pass      |
| Ethyl Acetate         | ND             | 5000                | Pass      |
| Ethyl Benzene         | ND             | See Total Xylenes   | Pass      |
| Ethyl Ether           | ND             | 5000                | Pass      |
| Ethylene Glycol       | ND             | 620                 | Pass      |
| Ethylene Oxide        | ND             | 50                  | Pass      |

| Residual Solvent      | Finding (µg/g) | Action Level (µg/g) | Pass/Fail |
|-----------------------|----------------|---------------------|-----------|
| Heptane               | ND             | 5000                | Pass      |
| Hexane                | ND             | 290                 | Pass      |
| Isopropyl Acetate     | ND             | 5000                | Pass      |
| Methanol              | ND             | 3000                | Pass      |
| Methylpropane         | ND             | 5000                | Pass      |
| 2-Methylpentane       | ND             | 290                 | Pass      |
| 3-Methylpentane       | ND             | 290                 | Pass      |
| N,N-Dimethylformamide | ND             | 880                 | Pass      |
| Pentane               | ND             | 5000                | Pass      |
| Propane               | ND             | 5000                | Pass      |
| Pyridine              | ND             | 100                 | Pass      |
| Sulfolane             | ND             | 160                 | Pass      |
| Tetrahydrofuran       | ND             | 720                 | Pass      |
| Toluene               | ND             | 890                 | Pass      |
| Total Xylenes         | ND             | 2170                | Pass      |

† Per Utah state code 4-41a-701(3) Section R68-29-6

‡ Total Xylenes is a combination of the following: o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene

Overall Disposition: Pass  
 Performed By: Anil Rokaya  
 Reviewed By: Tessa Crook

## Instrument Analysis Report

### Mycotoxins

Method: Mycotoxin

Sample Name: Sleep Functional Mushroom Gummies

APRC Lot Number: HPL251113D

| Mycotoxin         | Finding (µg/kg) | Limit(µg/kg) | Pass/Fail |
|-------------------|-----------------|--------------|-----------|
| Aflatoxin B1:     | ND              |              |           |
| Aflatoxin B2:     | ND              |              |           |
| Aflatoxin G1:     | ND              |              |           |
| Aflatoxin G2:     | ND              |              |           |
| Total Aflatoxins: | 0               | 20           | Pass      |
| Ochratoxin A:     | ND              | 20           | Pass      |

Performed by: Anil Rokaya

Reviewed by: Tessa Crook



Mycotoxin testing performed in a non-ISO 17025:2017 accredited facility. Pass/Fail determinations based on Utah Administrative Rule R68-29.



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**Approved By:**  
Nicholas Saichek, PhD  
Senior Scientist Mass Spectrometry  
11/18/2025